

WHAT IS CLAIMED IS:

1. A gas generator comprising:
a housing comprising a base and a cap, wherein said cap is
rotatably fixed to said base.
2. A gas generator comprising:
a housing comprising a base and a cap, said cap further comprising
a cap peripheral edge and said base further comprising a
base peripheral edge, wherein said base peripheral edge is
rotatably fixed about said cap peripheral edge;
a plurality of protruding portions spaced along and integral with
the cap peripheral edge wherein each of said plurality of
protruding portions has a first radial length substantially
equal to the radial lengths of the other protruding portions;
and
a plurality of hook members spaced about and integral with the
base peripheral edge, each hook member corresponding to
one of said plurality of protruding portions, wherein each of
said plurality of hook members has a hook radial length
substantially equal to the other hook members and said
hook radial length is greater than said first radial length;
wherein upon assembly of said gas generator said cap is rotatably
fixed to said base by slidably engaging each of said
protruding portions within a corresponding hook member.
3. The gas generator of claim 2 further comprising:
a plurality of recessed portions spaced along and integral with the
cap peripheral edge wherein each of said plurality of
recessed portions has a third radial length substantially

equal to the radial lengths of the other recessed portions
and said third radial length is less than said first radial
length;

wherein upon assembly of said gas generator said cap is rotatably
fixed to said base by orienting said recessed portions
between said hook members and then slidably engaging
each of said protruding portions within a corresponding hook
member.

4. The gas generator of claim 2 further comprising:
an interface formed between said base and said cap upon
assembly thereof; and
an adhesive composition applied within said interface upon
assembly thereof for attaching said cap to said base.

5. The gas generator of claim 4 wherein said adhesive
composition has a decomposition temperature less than or equal to
150°C.

6. The gas generator of claim 5 wherein said adhesive
composition has a decomposition temperature from about 110°C
to 120°C.

7. The gas generator of claim 2 further comprising:
an annulus formed centrally and radially within said cap for
placement of a gas generant igniter; and
a gas generant igniter adhesively fixed and sealed within said
annulus.

8. The gas generator of claim 2 further comprising:
a plurality of inner walls, each inner wall formed within each of
said hook members; and
a plurality of grooves, each of said grooves formed by one of said
inner walls and each of said grooves having a first end and a
second end, wherein the arcuate length of each groove at
the first end is greater than the arcuate length of the groove
at the second end thereby forming a tapered groove;
wherein upon assembly of said gas generator said cap is rotatably
fixed to said base by slidably engaging each of said
protruding portions within a corresponding hook member,
said tapered groove thereby forming an interference fit
between each protruding portion and each respective hook
member.

9. The gas generator of claim 2 further comprising a bar code
associated with said gas generator for identification of data.

10. A method of assembling a gas generator having a housing
comprising a base and a cap, the method comprising the step of:
adhesively fixing the base to the cap.

11. The method of claim 10 further comprising the steps of:
forming a plurality of hook members along a base peripheral edge;
forming a corresponding plurality of protruding members along a
cap peripheral edge;
applying an adhesive to an interface formed between the cap and
the base upon assembly thereof; and

rotatably and adhesively fixing the base to the cap by slidably engaging each of the hook members over a corresponding protruding portion.

5 12. The method of claim 10 further comprising the steps of:
forming an annulus centrally and radially disposed within the cap;
and
adhesively fixing a gas generant igniter within said annulus.

10 13. The method of claim 10 further comprising the step of:
attaching a bar code to the gas generator for identification of data.

14. The method of claim 10 further including the step of:
rotatably fixing the base to the cap.